

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number
WO 2004/108122 A1

(51) International Patent Classification⁷: **A61K 31/04**,
31/7042, A61P 31/12, C07D 309/10

(21) International Application Number:
PCT/IB2004/002393

(22) International Filing Date: 7 June 2004 (07.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/476,908 6 June 2003 (06.06.2003) US

(71) Applicant (for all designated States except US): **JOHANN WOLFGANG GOETHE UNIVERSITY**
[DE/DE]; Senckenbergallee 31, 60325 Frankfurt am Main (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CINATL, Jindrich** [CZ/DE]; Carl-Maria-von-Weber-Str. 2, 63069 Offenbach a.M. (DE). **DOERR, Hans, Wilhelm**

[DE/DE]; Breitseeweg 21, 63303 Dreieich (DE). **HOVER, Gerold** [DE/DE]; Luisenstr. 51, 63067 Offenbach a.M. (DE). **MICHAELIS, Martin** [DE/DE]; Marie-Luise-Kaschnitz-Str. 2, 60439 Frankfurt a.M. (DE).

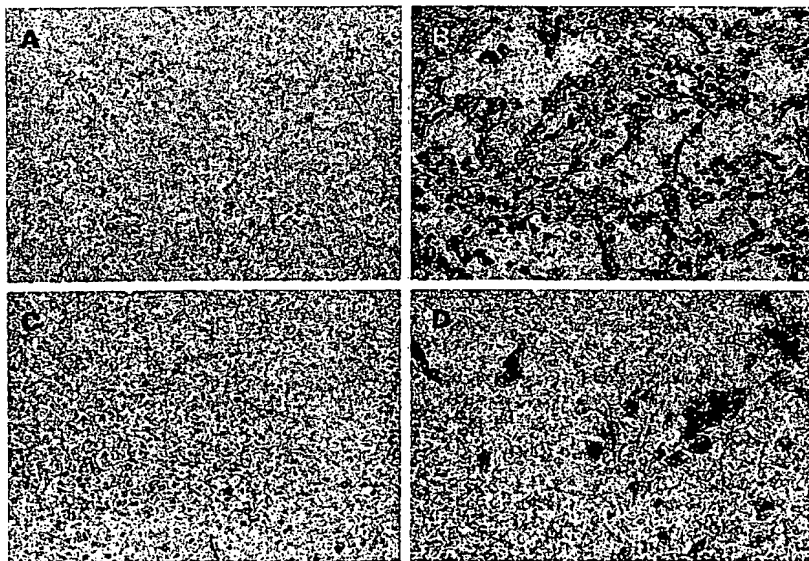
(74) Agent: **RICKER, Matthias**; JONES DAY, Prinzregentenstrasse 11, 80538 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: **GLYCYRRHIZIN OR DERIVATIVES THEREOF FOR TREATING OR PREVENTING SEVERE ACUTE RESPIRATORY SYNDROME (SARS)**



(57) Abstract: The invention provides methods for preventing, treating, managing or ameliorating viral infections, in particular, Severe Acute Respiratory Syndrome (SARS). More specifically, the invention provides methods for preventing, treating, managing or ameliorating a SARS-associated coronavirus or one or more symptoms thereof by administering Glycyrrhizin and/or derivatives thereof. The invention also provides methods for preventing, treating, managing or ameliorating a SARS-associated coronavirus or one or more symptoms thereof by administering Glycyrrhizin and/or a derivative thereof in combination with a prophylactic or therapeutic agent other than Glycyrrhizin or a derivative thereof.

BEST AVAILABLE COPY

WO 2004/108122 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*